

single and twin

Insulation of Cables, state type of cables, single or twin *are the cables insulated and protected as per Tables III or IV of the Rules* *Yes*

Fall of Pressure, state maximum between bus bars and any point of the installation under maximum load *2 1/2 %*

Cable Sockets and other connections, are the ends of all cables having a sectional area of 0.007 square inch and above provided with soldering sockets *Yes*

Paper Insulated Cables. If cables are paper covered, is the dielectric at the exposed ends of the conductor protected from moisture by being suitably sealed with insulating compound *✓*

Cable Runs, are the cables fixed as far as possible in accessible positions not exposed to drip or accumulation of water or oil, or to high temperature from boilers, steam pipes, uptakes or other hot objects, or to avoidable risk of mechanical damage *Yes*

Support and Protection of Cables, state how the cables are supported and protected *fixed on perforated steel plate with galvanised iron clips and brass screws*

If cables are run in wood casings, are the casings and caps secured by screws *✓*, are the cap screws of brass *Yes*, are the cables run in separate grooves *✓*. If armoured and lead covered cables are secured by metal clips, are the clips spaced as per Table VI *Yes*

Refrigerated Chambers, if lights are fitted, are the cables and fittings in accordance with the special requirements *Yes*

Joints in Cables, state if any, and how made, insulated, and protected *connection boxes provided of cable glands*

Watertight Glands and Deck Tubes, are all cables passing through decks and watertight bulkheads provided with deck tubes or watertight glands *Yes*

Bushes in Beams and Non-watertight Positions, where unarmoured cables pass through beams and non-watertight partitions, are the holes efficiently bushed *Yes* state the material of which the bushes are made *vulcan fibre and lead*

Earthing Connections, state what earthing connections are fitted and their respective sectional areas *✓*

are their connections made as per Rule *✓*

Alternative Lighting, are the groups of lights in the propelling machinery space arranged as per Rule *✓*

Emergency Supply, state position and method of control of the emergency supply and how the generator is driven *✓*

Navigation Lamps, are these separately wired *Yes*, controlled by separate switch and separate fuses *Yes*

are the fuses double pole *Yes*, are the switches and fuses grouped in a position accessible only to the officers on watch *Yes*

has each navigation lamp an automatic indicator as per Rule *Yes*, are separate screens provided for the use of oil and electric side lights *✓*

are separate oil lanterns provided for the mast head lights and side lights *✓*

Fittings, are all fittings on weather decks, in stokeholds and engine rooms and wherever exposed to drip or condensed moisture, watertight *Yes*

are any fittings placed in spaces in which goods are liable to be stacked in close proximity to them; if so, how are they protected *over the normal*

Bulge is made an iron box with a glass window

are any fittings placed in spaces where inflammable or explosive dust or gases are liable to be present, if so, how are they protected *as above*

outside the spaces *✓*, how are the cables led *✓*

where are the controlling switches situated *in the midship*

Searchlight Lamps, No. of *✓*, whether fixed or portable *✓*, are their fittings as per Rule *✓*

Arc Lamps, other than searchlight lamps, No. of *✓*, are their live parts insulated from the frame or case *✓*, are their fittings as per Rule *✓*

Motors, are their working parts readily accessible *Yes*, are the coils self-contained and readily removable for replacement *Yes*

are the brushes, brush holders, terminals and lubricating arrangements as per Rule *Yes*, are the motors placed in well-ventilated compartments in which inflammable gases cannot accumulate and clear of all inflammable material *Yes*

are they protected from mechanical injury and damage from water, steam or oil *Yes* are their axis of rotation fore and aft *Yes*

if situated near unprotected woodwork or other combustible material, are the motors of the totally enclosed, pipe ventilated, forced draught, drip or flame proof type *Yes*

if not of this type, state distance of the combustible material horizontally or vertically above the motors *✓* and *✓*

Control Gear and Resistances, are the generator field and motor speed regulators, starters and controllers constructed as per Rule *Yes*

Lightning Conductors, where lightning conductors are required, are these fitted as per Rule *Yes*

Ships carrying Oil having a Flash Point less than 150° F. Have the special requirements of the Rules been complied with regarding switches, joint boxes, section and distribution boards, protection of cables, method of distribution, lead of cables, lights and fittings *Yes*

If portable lamps for use in dangerous spaces are supplied, are they of a type approved by the Home Office *Yes*

PARTICULARS OF GENERATING PLANT.									
DESCRIPTION OF GENERATOR.	No. of	RATED AT				DRIVEN BY.	WHERE DRIVEN BY AN INTERNAL COMBUSTION ENGINE.		
		Kilowatts.	Volts.	Amperes.	Revs. per Min.		Fuel Used.	Flash Point of Fuel.	
MAIN POWER <i>Right</i>	3	3.2	110	290	250	Diesel engine			
AUXILIARY <i>Right</i>	1	1.4	110	127	440	Kromhout motor			
EMERGENCY <i>Right</i>	1	1.4	110	127	400	Steam dynamo			
ROTARY TRANSFORMER									

LIGHTING AND HEATING CONDUCTORS.									
Ref. No.	DESCRIPTION.	No. of Conductors.	Effective Area of each Conductor. Sq. Ins.	COMPOSITION OF STRAND.		Total Maximum Current. Amperes.	Approximate Length. (Lead and Return.) Feet.	Insulated with	HOW PROTECTED.
				No.	Diameter.				
	MAIN GENERATOR...								
	AUXILIARY GENERATOR								
	EMERGENCY GENERATOR								
	ROTARY TRANSFORMER...								
	AUXILIARY SWITCHBOARDS								
	ENGINE ROOM								
	BOILER ROOM								
	main generator power								
	pos. pole	1	0.5	61	0.108	290	72	rubber	steel wire
	neg. pole	1	0.5	61	0.108	290	72		
	equaliser	1	0.147	37	0.072		72		
	main generator light								
	pos. pole	1	0.1168	37	0.064	127	120		
	neg. pole	1	0.1168	37	0.064	127	120		
	equaliser	1	0.039	19	0.052		120		
	WIRELESS	2	0.0146	7	0.052	30	640		
	SEARCHLIGHT								
	MASTHEAD LIGHT	2	0.00455	7	0.029	1	360		
	SIDE LIGHTS	2	0.00455	7	0.029	1	54		
	COMPASS LIGHTS	2	0.00299	3	0.036	0.5	24		
	POOP LIGHTS	2	0.00299	3	0.036	1.0	120		
	CARGO LIGHTS	2	0.00299	3	0.036	1.0	60		
	ARC LAMPS								
	HEATERS								

MOTOR CONDUCTORS.									
Ref. No.	DESCRIPTION.	No. of Motors.	Effective Area of each Conductor. Sq. Ins.	COMPOSITION OF STRAND.		Total Maximum Current. Amperes.	Approximate Length. (Lead and Return.) Feet.	Insulated with	HOW PROTECTED.
				No.	Diameter.				
	BALLAST PUMP								
	MAIN BILGE LINE PUMPS								
	GENERAL SERVICE PUMP								
	EMERGENCY BILGE PUMP								
	SANITARY PUMP								
	CIRC. SEA WATER PUMPS								
	CIRC. FRESH WATER PUMPS								
	AIR COMPRESSOR								
	FRESH WATER PUMP								
	ENGINE TURNING GEAR	2	0.1478	37	0.072	130	240	rubber	steel wire
	ENGINE REVERSING GEAR								
	LUBRICATING OIL PUMPS	2	0.1478	37	0.072	140	120		
	OIL FUEL TRANSFER PUMP	2	0.03960	19	0.052	60	120		
	WINDLASS								
	WINCHES, FORWARD								
	WINCHES, AFT								
	STEERING GEAR	4	0.07592	19	0.072	190	300		
	WORKSHOP MOTOR								
	VENTILATING FANS								
	cooling pumps	2	0.14780	37	0.072	280	36		
	workshop motor	2	0.0146	7	0.052	24	36		
		2	0.0146	7	0.052	24	50		
		2	0.0146	7	0.052	24	56		
	oil purifier	2	0.0146	7	0.052	24	120		
		2	0.0146	7	0.052	24	120		
	refrigerating	2	0.07592	19	0.072	95	260		

All Conductors are of annealed copper conforming to British Standard Specification No. 7.

The Insulated Conductors are guaranteed to withstand the immersion and resistance tests specified in the Rules.

The foregoing is a correct description.

GROENEVELD, VAN DER POLL & Co's

Electrotechnische Fabrik

per proc. *J. Millmeyer*

Electrical Engineers.

Date *5 March 1927*

COMPASSES.

Distance between electric generators or motors and standard compass

420 feet

Distance between electric generators or motors and steering compass

30 feet

The nearest cables to the compasses are as follows:—

A cable carrying *0.5* Ampères *0.5* feet from standard compass *0.5* feet from steering compass.

A cable carrying " Ampères " feet from standard compass " feet from steering compass.

A cable carrying " Ampères " feet from standard compass " feet from steering compass.

Have the compasses been adjusted with and without the electric installation at work at full power *Yes*

Has the effect of switching on and off circuits, motors and other electro-magnetic apparatus within the vicinity of the compasses been noted *Yes*

The maximum deviation due to electric currents was found to be *Nihil* degrees on " course in the case of the standard compass, and " degrees on " course in the case of the steering compass.

NEDERLANDSCHE SCHEEPSBOUW-MAATSCHAPPIJ

J. Millmeyer

Builder's Signature.

Date *5 March 1927*

Is this installation a duplicate of a previous case *Yes* If so, state name of vessel *M. V. "Phobos" Ans. R. 10461 C*

General Remarks (State quality of workmanship, opinions as to class, &c.)

The installation has been fitted in accordance with the Rules, workmanship good. The whole has been tested under full working condition and found good and efficient.

It is submitted that
this vessel is eligible
THE RECORD. Elec. light.

W.D.
17/3/27

Total Capacity of Generators *138* Kilowatts

The amount of Fee ... *£. 400.80* :

When applied for, 19

Travelling Expenses (if any) *£. -* :

When received, 17. 3. 27

1st N. Beunvold
Surveyor to Lloyd's Register of Shipping.

Committee's Minute

FRI. 18 MAR 1927

Assigned

Elec Light